

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Sherry Leonard *et al.*

Serial No.: 08/956,518

Filed: 10/23/97

Entitled: ALPHA-7 NICOTINIC RECEPTOR

Group No.: 1645

Examiner: R. Hayes

CERTIFICATE RE: SEQUENCE LISTING

Assistant Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)(1)(i)(A)	
I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.	
Dated: <u>April 1, 1999</u>	By: <u>Marlene E. Garitano</u> Marlene E. Garitano

Sir or Madam:

I hereby state that the enclosed Sequence Listing is being submitted in paper copy and on a computer-readable diskette, and that the content of the paper and computer readable copies are the same.

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1290. An originally executed duplicate of this Certificate is enclosed for this purpose.

Dated: 1 April 1999By: Kamrin T. MacKnight
Kamrin T. MacKnight
Registration No. 38,230MEDLEN & CARROLL, LLP
220 Montgomery Street, Suite 2200
San Francisco, California 94104
415.705.8410



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

DN

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/956,518	10/23/97	LEONARD	UTC-03042

KAMRIN T. MACKNIGHT
MEDLEN & CARROLL
220 MONTGOMERY STREET
SUITE 2200
SAN FRANCISCO CA 94104

HM12/0323

EXAMINER

HAYES, R

ART UNIT	PAPER NUMBER
----------	--------------

1645

7

DATE MAILED:

03/23/99

Resp.
4/23/99
RCD

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
08/956518			



EXAMINER	
ART UNIT	PAPER NUMBER
	7

DATE MAILED:

Please find below a communication from the EXAMINER in charge of this application
Commissioner of Patents

The communication filed on **01/07/99** is not fully responsive to the communication mailed **09/04/98** for the reason(s) set forth on the attached Notice to Comply With the Sequence Rules or CRF Diskette Problem Report. It should also be noted that 37 CFR 1.821 (a)(2)(c-d) states that each sequence disclosed must appear separately in the "Sequence listing" *and* in the text of the description and claims (i.e., where first mentioned in the specification). See MPEP 2431.

Since the response appears to be **bona fide**, but through an apparent oversight or inadvertence failed to provide a complete response, applicant is given **ONE (1) MONTH or THIRTY (30) DAYS** from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

Any inquiry concerning this communication should be directed to Examiner **Robert C. Hayes**, Art Unit **1645**, whose telephone number is **703-305-3132**

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (703) 308-0196.

Robert C. Hayes, Ph.D.
March 19, 1999

ANTHONY C. CAPUTA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):



- ☐ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: _____

Applicant Must Provide:

- ☒ An ~~initial~~ or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An ~~initial~~ or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

PatentIn Software Program Support (SIRA)

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

Hayes

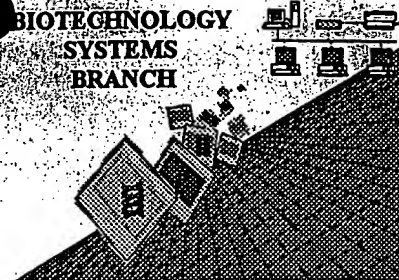
RAW SEQUENCE LISTING

ERROR REPORT



Applicant

**BIOTECHNOLOGY
SYSTEMS
BRANCH**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 08/956,518

Art Unit / Team No. : 1646

Date Processed by STIC: 1/21/99

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/956,518

1645

DATE: 01/21/99
TIME: 15:21:10

INPUT SET: S30866.raw



This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

Does Not Comply
Corrected Diskette Needed

SEQUENCE LISTING

1
2
3 (1) General Information:
4
5 (i) APPLICANT: Leonard, Sherry
6 Freedman, Robert
7
8 (ii) TITLE OF INVENTION: ALPHA-7 NICOTINIC RECEPTOR
9
10 (iii) NUMBER OF SEQUENCES: 121
11
12 (iv) CORRESPONDENCE ADDRESS:
13 (A) ADDRESSEE: MEDLEN & CARROLL, LLP
14 (B) STREET: 220 Montgomery Street, Suite 2200
15 (C) CITY: San Francisco
16 (D) STATE: CA
17 (E) COUNTRY: USA
18 (F) ZIP: 94104
19
20 (v) COMPUTER READABLE FORM:
21 (A) MEDIUM TYPE: Floppy disk
22 (B) COMPUTER: IBM PC compatible
23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
25
26 (vi) CURRENT APPLICATION DATA:
27 (A) APPLICATION NUMBER: US 08/956,518
28 (B) FILING DATE: 23-OCT-1997
29 (C) CLASSIFICATION:
30
31 (viii) ATTORNEY/AGENT INFORMATION:
32 (A) NAME: MacKnight, Kamrin T.
33 (B) REGISTRATION NUMBER: 38,230
34 (C) REFERENCE/DOCKET NUMBER: UTC-03042
35
36 (ix) TELECOMMUNICATION INFORMATION:
37 (A) TELEPHONE: 415-705-8410
38 (B) TELEFAX: 415-397-8338
39
40

ERRORED SEQUENCES FOLLOW:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/956,518DATE: 01/21/99
TIME: 15:21:11

INPUT SET: S30866.raw

185 (2) INFORMATION FOR SEQ ID NO:9:
186
187 (i) SEQUENCE CHARACTERISTICS:
--> 188 (A) LENGTH: 337 base pairs
189 (B) TYPE: nucleic acid
190 (C) STRANDEDNESS: single
191 (D) TOPOLOGY: linear
192
193 (ii) MOLECULE TYPE: other nucleic acid
194 (A) DESCRIPTION: /desc = "DNA"
195
196
197
198
199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
200
201 AGATGCCCAA GTGGACCAGA GTCATCCTTC TGAAGTGGTG CGCGTGGTTC
--> 202 CTGCCGAATGA 60
203
204 AGAGGCCCGG GGAGGACAAG GTGCGCCCGG CCTGCCAGCA CAAGCAGCGG
--> 205 CGCTGCAGCC 120
206
207 TGGCCAGTGT GGAGATGAGC GCCGTGGGCC CGCCGCCCGC CAGCAACGGG
--> 208 AACCTGCTGT 180
209
210 ACATCGGCTT CCGCGGCCTG GACGGCGTGC ACTGTGTCCC GACCCCCGAC
--> 211 TCTGGGGTAG 240
212
213 TGTGTGGCCG CATGGCCTGC TCCCCACGC ACGATGAGCA CCTCCTGCAC
--> 214 GGCGGGCAAC 300
215
216 CCCCCGAGGG GGACCCGGAC TTGGCCAAGA TCCTGGA 337
217

236 (2) INFORMATION FOR SEQ ID NO:11:
237
238 (i) SEQUENCE CHARACTERISTICS:
--> 239 (A) LENGTH: 54 base pairs
240 (B) TYPE: nucleic acid
241 (C) STRANDEDNESS: single
242 (D) TOPOLOGY: linear
243
244 (ii) MOLECULE TYPE: other nucleic acid
245 (A) DESCRIPTION: /desc = "DNA"
246
247
248
249
250 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
251
252 CACACACACA TCACACACAC ACACACACAC ACACATACAC ACACACACCA CACA
253 54
254

(see item 1 on
Erra summary sheet)

format error

60

120

same
error

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/956,518DATE: 01/21/99
TIME: 15:21:11

INPUT SET: S30866.raw

921 (2) INFORMATION FOR SEQ ID NO:49:
922
923 (i) SEQUENCE CHARACTERISTICS:
--> 924 (A) LENGTH: 48 base pairs
925 (B) TYPE: nucleic acid
926 (C) STRANDEDNESS: single
927 (D) TOPOLOGY: linear
928
929 (ii) MOLECULE TYPE: other nucleic acid
930 (A) DESCRIPTION: /desc = "DNA"
931
932
933
934
935 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:
936
937 CAUCAUCAUC AUCCAGCGTA CATCGATGTA GCAGGAATC TTGAATAT
938 48
939

940 (2) INFORMATION FOR SEQ ID NO:50:
941
942 (i) SEQUENCE CHARACTERISTICS:
--> 943 (A) LENGTH: 41 base pairs
944 (B) TYPE: nucleic acid
945 (C) STRANDEDNESS: single
946 (D) TOPOLOGY: linear
947
948 (ii) MOLECULE TYPE: other nucleic acid
949 (A) DESCRIPTION: /desc = "DNA"
950
951
952 (ix) FEATURE:
953 (A) NAME/KEY: -
954 (B) LOCATION: 32..33
955 (D) OTHER INFORMATION: /note= "The residue at this
956 position is Inosine."
957
958 (ix) FEATURE:
959 (A) NAME/KEY: -
960 (B) LOCATION: 36..37
961 (D) OTHER INFORMATION: /note= "The residue at this
962 position is Inosine."
963
964 (ix) FEATURE:
965 (A) NAME/KEY: -
966 (B) LOCATION: 41..42
967 (D) OTHER INFORMATION: /note= "The residue at this
968 position is Inosine."
969
970
971 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:

*same**"C" at location 32 can only represent itself,**"G" at location 33 only represents itself.**nothing else**If you want location 32 to be Inosine, use "N."**Same with location 33**same error**There are only 4 nucleic acids in the sequence**same error**Inosine can only be represented by "N."*

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/956,518DATE: 01/21/99
TIME: 15:21:12

INPUT SET: S30866.raw

972
973
974
975CUACUACUAC UAGGCCACGC GTCGACTAGT AC~~GGGGGGGG~~G

41

41

1570 (2) INFORMATION FOR SEQ ID NO:84:

1571

1572 (i) SEQUENCE CHARACTERISTICS:

--> 1573 (A) LENGTH: 55 base pairs

1574 (B) TYPE: nucleic acid

1575 (C) STRANDEDNESS: single

1576 (D) TOPOLOGY: linear

1577

1578 (ii) MOLECULE TYPE: other nucleic acid

1579 (A) DESCRIPTION: /desc = "DNA"

1580

1581

1582

1583

1584 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:

1585

--> 1586 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNCT

1587 GCACG

55

1588

*Same
even*

1751 (2) INFORMATION FOR SEQ ID NO:94:

1752

1753 (i) SEQUENCE CHARACTERISTICS:

--> 1754 (A) LENGTH: 457 base pairs

1755 (B) TYPE: nucleic acid

1756 (C) STRANDEDNESS: single

1757 (D) TOPOLOGY: linear

1758

1759 (ii) MOLECULE TYPE: other nucleic acid

1760 (A) DESCRIPTION: /desc = "DNA"

1761

1762

1763

1764

1765 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:

1766

--> 1767 AGAACGCAAG GGAGAGGTAG AGCCTGGCCT TGGGCAGCCC CTGGCCTGGC

1768 CAGAGGCGCG

60

1769

--> 1770 AGGCCGAGAG CCCGCTCGGT GGAGACTGGG GGTGGAGGTG CCCGGAGCGT

1771 ACCCAGCGCC

120

1772

--> 1773 GGGAGTACCT CCCGCTCACA CCTCGGGCTG CAGTTCCCTG GGTGGCCGCC

1774 GAGACGCTGG

180

1775

--> 1776 CCCGGGCTGG AGGGATGGCG GGGCGGGGAC GGGGGCGGGG GCGGGGCTCG

1777 TCACGTGGAG

240

1778

Same

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/956,518DATE: 01/21/99
TIME: 15:21:13

INPUT SET: S30866.raw

1779 AGGCGCGCGG GGGCGGGCGG GCGGGGGGCG CGCGCCCGGC TCCTTAAAGG
--> 1780 CGCGCGAGCC 300
1781
1782 GAGCGGCGAG GTGCCTCTGT GGCCGCAGGC GCAGGCCCGG GCGACAGCCG
--> 1783 AGACGTGGAG 360
1784
1785 CGCGCCGGCT CGCTGCAGCT CCGGGACTCA ACATGCGCTG CTCGCCGGGA
--> 1786 GCGCTCTGGC 420
1787
1788 TGGCGCTGGC CGCGTCGCTC CTGCACGGTA AAGCCAC
1789

457

same

1790 (2) INFORMATION FOR SEQ ID NO:95:
1791
1792 (i) SEQUENCE CHARACTERISTICS:
--> 1793 (A) LENGTH: 308 base pairs
1794 (B) TYPE: nucleic acid
1795 (C) STRANDEDNESS: single
1796 (D) TOPOLOGY: linear
1797
1798 (ii) MOLECULE TYPE: other nucleic acid
1799 (A) DESCRIPTION: /desc = "DNA"
1800
1801
1802
1803
1804 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:
1805
1806 CAGGCCGCCA CATAGCTCCC GCCAAGTCCT CGGTGCCCCT TGCCATTTTC
--> 1807 CAGCCGCGTC 60
1808
1809 CCACGAGGGT CACGGCGGCG GGGAGAGGTG GAGCCGCGAG AGCTCGGCCG
--> 1810 GGGGCCCCCG 120
1811
1812 CTGGTGGCCG CGGCCATGAC AGCGGCTCGG GACTGGCTCC TTTTCCGCGC
--> 1813 CCCTCCCGCC 180
1814
1815 GGAGGTGAGG GGAAGATGTC CATGTCAGGG TTCAAGGCCA AACCGAAGTT
--> 1816 ACTGGCCCTC 240
1817
1818 TATCTTCCAG GAGAACCAGG AGCCACAGCC GCGGCTCACG CCCCACCGCA
--> 1819 ACATTAAGGT 300
1820
1821 GAGTCGCC
1822

308

same

1823 (2) INFORMATION FOR SEQ ID NO:96:
1824
1825 (i) SEQUENCE CHARACTERISTICS:
--> 1826 (A) LENGTH: 145 base pairs
1827 (B) TYPE: nucleic acid
1828 (C) STRANDEDNESS: single
1829 (D) TOPOLOGY: linear

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/956,518DATE: 01/21/99
TIME: 15:21:14

INPUT SET: S30866.raw

1830
1831 (ii) MOLECULE TYPE: other nucleic acid
1832 (A) DESCRIPTION: /desc = "DNA"
1833
1834
1835
1836
1837 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:
1838
1839 CTCATTTCAG ATTACAAGTG GACACCTGAG TCAGCAGGAC CTGGAATCCC
--> 1840 AGATGAGAGA 60
1841
1842 GCTTATCTAC ACGACTCAGA TCTTGTGTC ACCCCCATTA TTGACAATCC
--> 1843 AAAGGTGCAG 120
1844
1845 AAAGCACTCT GACAAGTGAG TTGTA 145
1846

1847 (2) INFORMATION FOR SEQ ID NO:97:
1848
1849 (i) SEQUENCE CHARACTERISTICS:
--> 1850 (A) LENGTH: 84 base pairs
1851 (B) TYPE: nucleic acid
1852 (C) STRANDEDNESS: single
1853 (D) TOPOLOGY: linear
1854
1855 (ii) MOLECULE TYPE: other nucleic acid
1856 (A) DESCRIPTION: /desc = "DNA"
1857
1858
1859
1860
1861 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:
1862
1863 TTAACCACAG ATAATGAAAC AACCACCATC GGTAAATTT GATGCAAAAA
--> 1864 TATTGCATCT 60
1865
1866 ACCAGCATTT TCAGGTAGGA TCAT 84
1867

1868 (2) INFORMATION FOR SEQ ID NO:98:
1869
1870 (i) SEQUENCE CHARACTERISTICS:
--> 1871 (A) LENGTH: 67 base pairs
1872 (B) TYPE: nucleic acid
1873 (C) STRANDEDNESS: single
1874 (D) TOPOLOGY: linear
1875
1876 (ii) MOLECULE TYPE: other nucleic acid
1877 (A) DESCRIPTION: /desc = "DNA"
1878
1879
1880

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/956,518DATE: 01/21/99
TIME: 15:21:15

INPUT SET: S30866.raw

1881
1882 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:
1883
1884 TTTATTCTAG TTCCAATTGC TAATCCAGCA TTTGTGGATA GCTGCAAAC
--> 1885 GCGATATGTA 60
1886
1887 AGTAACA
1888

67

1889 (2) INFORMATION FOR SEQ ID NO:99:
1890
1891 (i) SEQUENCE CHARACTERISTICS:
--> 1892 (A) LENGTH: 100 base pairs
1893 (B) TYPE: nucleic acid
1894 (C) STRANDEDNESS: single
1895 (D) TOPOLOGY: linear
1896
1897 (ii) MOLECULE TYPE: other nucleic acid
1898 (A) DESCRIPTION: /desc = "DNA"
1899
1900
1901
1902
1903 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:
1904
1905 CTGTTTCTAG TGCTGATGAG CGCTTTGACG CCACATTCCA CACTAACGTG
--> 1906 TTGGTGAATT 60
1907
1908 CTTCTGGGCA TTGCCAGTAC CTGCCTCCAG GTAAGCTGCA
1909

100

1928 (2) INFORMATION FOR SEQ ID NO:101:
1929
1930 (i) SEQUENCE CHARACTERISTICS:
--> 1931 (A) LENGTH: 392 base pairs
1932 (B) TYPE: nucleic acid
1933 (C) STRANDEDNESS: single
1934 (D) TOPOLOGY: linear
1935
1936 (ii) MOLECULE TYPE: other nucleic acid
1937 (A) DESCRIPTION: /desc = "DNA"
1938
1939
1940
1941
1942 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:
1943
1944 AGAACGCAAG GGAGAGGTAG AGCCTGGCCT TGGGCAGCCC CTGGCCTGGC
--> 1945 CAGAGGCGCG 60
1946
1947 AGGCCGAGAG CCCGCTCGGT GGAGACTGGG GGTGGAGGTG CCCGGAGCGT
--> 1948 ACCCAGCGCC 120
1949

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/956,518DATE: 01/21/99
TIME: 15:21:16

INPUT SET: S30866.raw

1950 GGGAGTACCT CCCGCTCACA CCTCGGGCTG CAGTTCCCTG GGTGGCCGCC
--> 1951 GAGACGCTGG 180
1952
1953 CCCGGGCTGG AGGGATGGCG GGGCGGGGAC GGGGGCGGGG GCGGGGCTCG
--> 1954 TCACGTGGAG 240
1955
1956 AGGCGCGCGG GGGCGGGCGG GGCGGGGGCG CGCGCCCGGC TCCTTAAAGG
--> 1957 CGCGCGAGCC 300
1958
1959 GAGCGGCGAG GTGCCTCTGT GGCCGCAGGC GCAGGCCCGG GCGACAGCCG
--> 1960 AGACGTGGAG 360
1961
1962 CGCGCCGGCT CGCTGCAGCT CCGGGACTCA AC
1963

392

1964 (2) INFORMATION FOR SEQ ID NO:102:
1965
1966 (i) SEQUENCE CHARACTERISTICS:
--> 1967 (A) LENGTH: 689 base pairs
1968 (B) TYPE: nucleic acid
1969 (C) STRANDEDNESS: single
1970 (D) TOPOLOGY: linear
1971
1972 (ii) MOLECULE TYPE: other nucleic acid
1973 (A) DESCRIPTION: /desc = "DNA"
1974
1975
1976
1977
1978 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:
1979
1980 AGCCCTTTCC CAGGCGGTAG CGGGGGCAGT GGTGCTGTTG CCCTTTTAAA
--> 1981 CTGCGGCTTG 60
1982
1983 ACGGGAGCCG CGCCTCCTGT CGGTGGAGTC GGTTATAAAG GGAGCAGCCC
--> 1984 CGCAGGCCGC 120
1985
1986 CACATAGCTC CCGCCAAGTC CTCGGTGCCC CTTGCCATTT TCCAGCCGCG
--> 1987 CTCCCACGAG 180
1988
1989 GGTACAGGCG GCGGGGAGAG GTGGAGCCGC GAGAGCTCGG CCGGGGGCCC
--> 1990 CGCCTGGTGG 240
1991
1992 CCGCGGCCAT GACAGCGGCT CGGGACTGGC TCCTTTTCCG CGCCCCCTCC
--> 1993 GCCGGAGGTG 300
1994
1995 AGGGGAAGAT GTCCATGTCA GGGTTCAAGG CCAAACCGAA GTTACTGGCC
--> 1996 TCTATCTTCC 360
1997
1998 AGGAGAACCA GGAGCCACAG CCGCGGCTCA CGCCCCACCG CAACATTAAG
--> 1999 ATTACAAGTG 420
2000
2001 GACACCTGAG TCAGCAGGAC CTGGAATCCC AGATGAGAGA GCTTATCTAC

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/956,518DATE: 01/21/99
TIME: 15:21:16

INPUT SET: S30866.raw

--> 2002 ACGACTCAGA 480
2003
2004 TCTTGTTGTC ACCCCCATTA TTGACAATCC AAAGGTGCAG AAAGCACTCT
--> 2005 GACAATTCCA 540
2006
2007 ATTGCTAATC CAGCATTTGT GGATAGCTGC AAAGTGGAT ATTGCTGATG
--> 2008 AGCGCTTTGA 600
2009
2010 CGCCACATTC CACACTAACG TGTTGGTGAA TTCTTCTGGG CATTGCCAGT
--> 2011 ACCTGCCTCC 660
2012
2013 AGGCATATTC AAGAGTTCCT GCTACATCG
2014

689

2015 (2) INFORMATION FOR SEQ ID NO:103:
2016
2017 (i) SEQUENCE CHARACTERISTICS:
--> 2018 (A) LENGTH: 641 base pairs
2019 (B) TYPE: nucleic acid
2020 (C) STRANDEDNESS: single
2021 (D) TOPOLOGY: linear
2022
2023 (ii) MOLECULE TYPE: other nucleic acid
2024 (A) DESCRIPTION: /desc = "DNA"
2025
2026
2027
2028
2029 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:
2030
2031 CAGGCCGCCA CATAGCTCCC GCCAAGTCCT CGGTGCCCCCT TGCCATTTTC
--> 2032 CAGCCGCGCT 60
2033
2034 CCCACGAGGG TCACGGCGGC GGGGAGAGGT GGAGCCGCGA GAGCTCGGCC
--> 2035 GGGGGCCCCG 120
2036
2037 CCTGGTGGCC GCGGCCATGA CAGCGGCTCG GGACTGGCTC CTTTTCGCG
--> 2038 CCCCTCCCGC 180
2039
2040 CGGAGGTGAG GGGAAGATGT CCATGTCAGG GTTCAAGGCC AAACCGAAGT
--> 2041 TACTGGCCTC 240
2042
2043 TATCTTCCAG GAGAACCAGG AGCCACAGCC GCGGCTCAGC CCCCACCGCA
--> 2044 ACATTAAGAT 300
2045
2046 TACAAGTGGA CACCTGAGTC AGCAGGACCT GGAATCCCAG ATGAGAGAGC
--> 2047 TTATCTACAC 360
2048
2049 GACTCAGATC TTGTTGTCAC CCCCATTATT GACAATCCAA AGGTGCAGAA
--> 2050 AGCACTCTGA 420
2051
2052 CAAATAATGA AACAACCACC ATCGGTAAAA TTTGATGCAA AAATATTGCA
--> 2053 TCTACCAGCA 480

Same

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/956,518DATE: 01/21/99
TIME: 15:21:17

INPUT SET: S30866.raw

2054
2055 TTTTCAGTTC CAATTGCTAA TCCAGCATTT GTGGATAGCT GCAAAGTGGC
--> 2056 ATATTGCTGA 540
2057
2058 TGAGCGCTTT GACGCCACAT TCCACACTAA CGTGTTGGTG AATTCTTCTG
--> 2059 GGCATTGCCA 600
2060
2061 GTACCTGCCT CCAGGCATAT TCAAGAGTTC CTGCTACATC G 641
2062

2081 (2) INFORMATION FOR SEQ ID NO:105:
2082
2083 (i) SEQUENCE CHARACTERISTICS:
--> 2084 (A) LENGTH: 140 base pairs
2085 (B) TYPE: nucleic acid
2086 (C) STRANDEDNESS: single
2087 (D) TOPOLOGY: linear
2088
2089 (ii) MOLECULE TYPE: other nucleic acid
2090 (A) DESCRIPTION: /desc = "DNA"
2091
2092
2093
2094
2095 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:
2096
2097 TGTCCNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2098 NNNNNNNNNN 60
2099
2100 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2101 NNNNNNNNNN 120
2102
2103 NNNNNNNNNN NNNNGACGTG 140
2104

2123 (2) INFORMATION FOR SEQ ID NO:107:
2124
2125 (i) SEQUENCE CHARACTERISTICS:
--> 2126 (A) LENGTH: 44 base pairs
2127 (B) TYPE: nucleic acid
2128 (C) STRANDEDNESS: single
2129 (D) TOPOLOGY: linear
2130
2131 (ii) MOLECULE TYPE: other nucleic acid
2132 (A) DESCRIPTION: /desc = "DNA"
2133
2134
2135
2136
2137 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:
2138
2139 GATGAGNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNCA AATG
2140 44

RAW SEQUENCE LISTING
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2141

2160 (2) INFORMATION FOR SEQ ID NO:109:
2161
2162 (i) SEQUENCE CHARACTERISTICS:
--> 2163 (A) LENGTH: 110 base pairs
2164 (B) TYPE: nucleic acid
2165 (C) STRANDEDNESS: single
2166 (D) TOPOLOGY: linear
2167
2168 (ii) MOLECULE TYPE: other nucleic acid
2169 (A) DESCRIPTION: /desc = "DNA"
2170
2171
2172
2173
2174 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:
2175
2176 TCTTGGNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2177 NNNNNNNNNN 60
2178
2179 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNAACAG
2180 110
2181

2200 (2) INFORMATION FOR SEQ ID NO:111:
2201
2202 (i) SEQUENCE CHARACTERISTICS:
--> 2203 (A) LENGTH: 80 base pairs
2204 (B) TYPE: nucleic acid
2205 (C) STRANDEDNESS: single
2206 (D) TOPOLOGY: linear
2207
2208 (ii) MOLECULE TYPE: other nucleic acid
2209 (A) DESCRIPTION: /desc = "DNA"
2210
2211
2212
2213
2214 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:
2215
2216 GCTGATNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2217 NNNNNNNNNN 60
2218
2219 NNNNNNNNNN NNNCCTCCAG
2220

2239 (2) INFORMATION FOR SEQ ID NO:113:
2240
2241 (i) SEQUENCE CHARACTERISTICS:
--> 2242 (A) LENGTH: 168 base pairs
2243 (B) TYPE: nucleic acid
2244 (C) STRANDEDNESS: single

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2245 (D) TOPOLOGY: linear
2246
2247 (ii) MOLECULE TYPE: other nucleic acid
2248 (A) DESCRIPTION: /desc = "DNA"
2249
2250
2251
2252
2253 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:
2254
2255 GCATANNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2256 NNNNNNNNNN 60
2257
2258 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2259 NNNNNNNNNN 120
2260
2261 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NCTAGTGG
2262 168
2263

2282 (2) INFORMATION FOR SEQ ID NO:115:
2283
2284 (i) SEQUENCE CHARACTERISTICS:
--> 2285 (A) LENGTH: 195 base pairs
2286 (B) TYPE: nucleic acid
2287 (C) STRANDEDNESS: single
2288 (D) TOPOLOGY: linear
2289
2290 (ii) MOLECULE TYPE: other nucleic acid
2291 (A) DESCRIPTION: /desc = "DNA"
2292
2293
2294
2295
2296 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:
2297
2298 GAATCNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2299 NNNNNNNNNN 60
2300
2301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2302 NNNNNNNNNN 120
2303
2304 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2305 NNNNNNNNNN 180
2306
2307 NNNNNNNNTC CCTGG
2308

195

2327 (2) INFORMATION FOR SEQ ID NO:117:
2328
2329 (i) SEQUENCE CHARACTERISTICS:
--> 2330 (A) LENGTH: 87 base pairs
2331 (B) TYPE: nucleic acid

RAW SEQUENCE LISTING
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INPUT SET: S30866.raw

2332 (C) STRANDEDNESS: single
2333 (D) TOPOLOGY: linear
2334
2335 (ii) MOLECULE TYPE: other nucleic acid
2336 (A) DESCRIPTION: /desc = "DNA"
2337
2338
2339
2340
2341 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:
2342
2343 GGATANNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2344 NNNNNNNNNN 60
2345
2346 NNNNNNNNNN NNNNNNNNNN TTGATAG
2347

87

2366 (2) INFORMATION FOR SEQ ID NO:119:
2367
2368 (i) SEQUENCE CHARACTERISTICS:
--> 2369 (A) LENGTH: 110 base pairs
2370 (B) TYPE: nucleic acid
2371 (C) STRANDEDNESS: single
2372 (D) TOPOLOGY: linear
2373
2374 (ii) MOLECULE TYPE: other nucleic acid
2375 (A) DESCRIPTION: /desc = "DNA"
2376
2377
2378
2379
2380 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:
2381
2382 CCCAGNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2383 NNNNNNNNNN 60
2384
2385 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNAAGTGG
2386 110
2387

2406 (2) INFORMATION FOR SEQ ID NO:121:
2407
2408 (i) SEQUENCE CHARACTERISTICS:
--> 2409 (A) LENGTH: 519 base pairs
2410 (B) TYPE: nucleic acid
2411 (C) STRANDEDNESS: single
2412 (D) TOPOLOGY: linear
2413
2414 (ii) MOLECULE TYPE: other nucleic acid
2415 (A) DESCRIPTION: /desc = "DNA"
2416
2417
2418

RAW SEQUENCE LISTING
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TIME: 15:21:20

INPUT SET: S30866.raw

2419
2420 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:
2421
2422 ACCAGANNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2423 NNNNNNNNNN 60
2424
2425 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2426 NNNNNNNNNN 120
2427
2428 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2429 NNNNNNNNNN 180
2430
2431 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2432 NNNNNNNNNN 240
2433
2434 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2435 NNNNNNNNNN 300
2436
2437 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2438 NNNNNNNNNN 360
2439
2440 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2441 NNNNNNNNNN 420
2442
2443 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
--> 2444 NNNNNNNNNN 480
2445
2446 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
2447 519
2448

same

SEQUENCE VERIFICATION REPORT

PATENT APPLICATION US/08/956,518

DATE: 01/21/99
TIME: 15:21:23

INPUT SET: S30866.raw

Line	Error	Original Text
188	Entered (337) and Calc. Seq. Length (87) differ	(A) LENGTH: 337 base pairs
202	# of Sequences for line conflicts w/ running total	CTGCGAATGA 60
205	# of Sequences for line conflicts w/ running total	CGCTGCAGCC 120
208	# of Sequences for line conflicts w/ running total	AACCTGCTGT 180
211	# of Sequences for line conflicts w/ running total	TCTGGGGTAG 240
214	# of Sequences for line conflicts w/ running total	GGCGGGCAAC 300
239	Entered (54) and Calc. Seq. Length (0) differ	(A) LENGTH: 54 base pairs
924	Entered (48) and Calc. Seq. Length (0) differ	(A) LENGTH: 48 base pairs
943	Entered (41) and Calc. Seq. Length (0) differ	(A) LENGTH: 41 base pairs
1573	Entered (55) and Calc. Seq. Length (5) differ	(A) LENGTH: 55 base pairs
1587	# of Sequences for line conflicts w/ running total	GCACG 55
1754	Entered (457) and Calc. Seq. Length (107) differ	(A) LENGTH: 457 base pairs
1768	# of Sequences for line conflicts w/ running total	CAGAGGCGCG 60
1771	# of Sequences for line conflicts w/ running total	ACCCAGCGCC 120
1774	# of Sequences for line conflicts w/ running total	GAGACGCTGG 180
1777	# of Sequences for line conflicts w/ running total	TCACGTGGAG 240
1780	# of Sequences for line conflicts w/ running total	CGCGCGAGCC 300
1783	# of Sequences for line conflicts w/ running total	AGACGTGGAG 360
1786	# of Sequences for line conflicts w/ running total	GGCGTCTGGC 420
1793	Entered (308) and Calc. Seq. Length (58) differ	(A) LENGTH: 308 base pairs
1807	# of Sequences for line conflicts w/ running total	CAGCCGCGTC 60
1810	# of Sequences for line conflicts w/ running total	GGGGCCCCGC 120
1813	# of Sequences for line conflicts w/ running total	CCCTCCCGCC 180
1816	# of Sequences for line conflicts w/ running total	ACTGGCCCTC 240
1819	# of Sequences for line conflicts w/ running total	ACATTAAGGT 300
1826	Entered (145) and Calc. Seq. Length (45) differ	(A) LENGTH: 145 base pairs
1840	# of Sequences for line conflicts w/ running total	AGATGAGAGA 60
1843	# of Sequences for line conflicts w/ running total	AAAGGTGCAG 120
1850	Entered (84) and Calc. Seq. Length (34) differ	(A) LENGTH: 84 base pairs
1864	# of Sequences for line conflicts w/ running total	TATTGCATCT 60
1871	Entered (67) and Calc. Seq. Length (17) differ	(A) LENGTH: 67 base pairs
1885	# of Sequences for line conflicts w/ running total	GCGATATGTA 60
1892	Entered (100) and Calc. Seq. Length (50) differ	(A) LENGTH: 100 base pairs
1906	# of Sequences for line conflicts w/ running total	TTGGTGAATT 60
1931	Entered (392) and Calc. Seq. Length (92) differ	(A) LENGTH: 392 base pairs
1945	# of Sequences for line conflicts w/ running total	CAGAGGCGCG 60
1948	# of Sequences for line conflicts w/ running total	ACCCAGCGCC 120
1951	# of Sequences for line conflicts w/ running total	GAGACGCTGG 180
1954	# of Sequences for line conflicts w/ running total	TCACGTGGAG 240
1957	# of Sequences for line conflicts w/ running total	CGCGCGAGCC 300
1960	# of Sequences for line conflicts w/ running total	AGACGTGGAG 360
1967	Entered (689) and Calc. Seq. Length (139) differ	(A) LENGTH: 689 base pairs
1981	# of Sequences for line conflicts w/ running total	CTGCGGCTTG 60
1984	# of Sequences for line conflicts w/ running total	CGCAGGCCCGC 120
1987	# of Sequences for line conflicts w/ running total	CTCCCACGAG 180
1990	# of Sequences for line conflicts w/ running total	CGCCTGGTGG 240
1993	# of Sequences for line conflicts w/ running total	GCCGGAGGTG 300
1996	# of Sequences for line conflicts w/ running total	TCTATCTTCC 360

SEQUENCE VERIFICATION REPORT

PATENT APPLICATION US/08/956,518

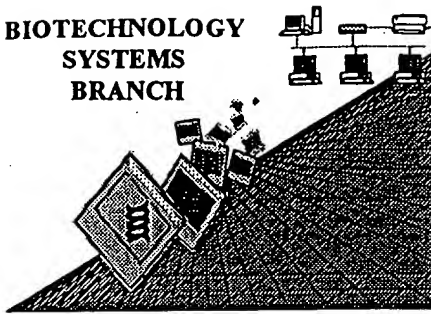
DATE: 01/21/99
TIME: 15:21:24

INPUT SET: S30866.raw

Line	Error	Original Text
1999	# of Sequences for line conflicts w/ running total	ATTACAAGTG 420
2002	# of Sequences for line conflicts w/ running total	ACGACTCAGA 480
2005	# of Sequences for line conflicts w/ running total	GACAATTCCA 540
2008	# of Sequences for line conflicts w/ running total	AGCGCTTTGA 600
2011	# of Sequences for line conflicts w/ running total	ACCTGCCTCC 660
2018	Entered (641) and Calc. Seq. Length (141) differ	(A) LENGTH: 641 base pairs
2032	# of Sequences for line conflicts w/ running total	CAGCCGCGCT 60
2035	# of Sequences for line conflicts w/ running total	GGGGGCCCCG 120
2038	# of Sequences for line conflicts w/ running total	CCCCTCCCCG 180
2041	# of Sequences for line conflicts w/ running total	TACTGGCCTC 240
2044	# of Sequences for line conflicts w/ running total	ACATTAAGAT 300
2047	# of Sequences for line conflicts w/ running total	TTATCTACAC 360
2050	# of Sequences for line conflicts w/ running total	AGCACTCTGA 420
2053	# of Sequences for line conflicts w/ running total	TCTACCAGCA 480
2056	# of Sequences for line conflicts w/ running total	ATATTGCTGA 540
2059	# of Sequences for line conflicts w/ running total	GGCATTGCCA 600
2084	Entered (140) and Calc. Seq. Length (40) differ	(A) LENGTH: 140 base pairs
2098	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 60
2101	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 120
2126	Entered (44) and Calc. Seq. Length (0) differ	(A) LENGTH: 44 base pairs
2163	Entered (110) and Calc. Seq. Length (10) differ	(A) LENGTH: 110 base pairs
2177	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 60
2203	Entered (80) and Calc. Seq. Length (30) differ	(A) LENGTH: 80 base pairs
2217	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 60
2242	Entered (168) and Calc. Seq. Length (20) differ	(A) LENGTH: 168 base pairs
2256	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 60
2259	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 120
2285	Entered (195) and Calc. Seq. Length (45) differ	(A) LENGTH: 195 base pairs
2299	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 60
2302	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 120
2305	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 180
2330	Entered (87) and Calc. Seq. Length (37) differ	(A) LENGTH: 87 base pairs
2344	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 60
2369	Entered (110) and Calc. Seq. Length (10) differ	(A) LENGTH: 110 base pairs
2383	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 60
2409	Entered (519) and Calc. Seq. Length (80) differ	(A) LENGTH: 519 base pairs
2423	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 60
2426	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 120
2429	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 180
2432	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 240
2435	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 300
2438	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 360
2441	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 420
2444	# of Sequences for line conflicts w/ running total	NNNNNNNNNN 480



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